

APPARATUS AND METHOD FOR PARALLEL MULTIMEDIA PROCESSING

ABSTRACT OF THE DISCLOSURE

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10 An apparatus and method for processing a multimedia digital
bitstream is disclosed. The apparatus comprises a processing chain
made up of a plurality of media processors. Each media processor
processes a portion of the multimedia digital bitstream in real
time. Each portion of the multimedia digital bitstream is split
into a primary bitstream and a secondary bitstream. The primary
bitstream is processed and merged with the unprocessed secondary
bitstream. The parallel processing method of the present invention
enables the processing chain to output a fully processed bitstream
in real time. The processing chain may be used to transcode a high
definition (HD) video bitstream in real time using a plurality of
bitrate transcoder units.